



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Syngenta Seeds, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN MAKING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'S25-D3'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this eighteenth day of July, in the year two thousand three.

Attest:

[Signature]

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[Signature]

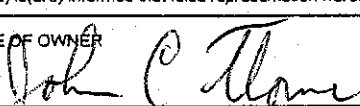
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Syngenta Seeds, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME X125		3. VARIETY NAME S25-D3	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) P.O. Box 959 Minneapolis, MN 55440		5. TELEPHONE (Include area code) 763-593-7333		FOR OFFICIAL USE ONLY	
		6. FAX (Include area code) 763-593-7801		PVPO NUMBER 200200139	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware		9. DATE OF INCORPORATION 1976	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) John C. Thorne Syngenta Seeds, Inc. P.O. Box 949 Washington, Iowa 52353				FILING AND EXAMINATION FEES: \$ 2,705.00 DATE 4/19/2002 CERTIFICATION FEE: \$ 470.00 DATE 4/15/2003	
11. TELEPHONE (Include area code) 319-653-2181		12. FAX (Include area code) 319-653-4609		13. E-MAIL johnc.thorne@syngenta.com	
14. CROP KIND (Common Name) Soybean		15. GENUS AND SPECIES NAME OF CROP Glycine max		16. FAMILY NAME (Botanical) Leguminosae	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)			
19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22)		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED			
21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? IF YES, SPECIFY THE <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED NUMBER 1,2,3, etc. (If additional explanation is necessary, please use the space indicated on the reverse.)		22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			
23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF OWNER 		SIGNATURE OF OWNER			
NAME (Please print or type) John C. Thorne		NAME (Please print or type)			
CAPACITY OR TITLE Director, Self Pollinated		DATE 16 Nov 2002		CAPACITY OR TITLE	
				DATE	

INSTRUCTIONS

200200139

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvp.htm>

ITEM

- 18a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
 - (2) the details of subsequent stages of selection and multiplication;
 - (3) evidence of uniformity and stability; and
 - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter. Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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EXHIBIT A

Origin and Breeding History of X125
(S25-D3') BT: 4/15/2003

In the summer of 1994 the Syngenta Seeds, Inc. (formerly Novartis Seeds, Inc. or Northrup King Co.) breeding group at London, Ontario, made the cross, 'Harovinton' x 'S24-12', from which the variety X125 was derived. Harovinton is a public variety developed by Agriculture and Agri-Food Canada at Harrow, Ontario. S24-12 is a commercial variety developed by Syngenta Seeds.

The F1 and F2 generations were grown at the Syngenta Seeds, Inc., Research Center near Kekaha, Kauai, HI, in the winter of 1994-95. The F3 generation was grown at London in the summer of 1995; the F4 and F5 in Kekaha in the winter of 1995-96, and the F6 at London, in the summer of 1996. The F2 through F5 generations were advanced using a modified system of single seed descent. Single F6 plants were harvested in the fall of 1996 and threshed individually. The progeny from these plants were yield tested in progeny rows in the summer of 1997. One of these, designated CL970321, was chosen on the basis of agronomic appearance for preliminary testing and initial increase. CL970321 was tested in extensive replicated trials in Ontario, Quebec, and the northern United States from 1998 through 2001, and found to perform well compared to other large seeded, food grade type Maturity Group II varieties. It was tested in the greenhouse at the Syngenta Seeds, Inc. Research Center at Bay, AR, for resistance to *Phytophthora sojae* and found to have the Rps1-c gene for resistance. It was tested at several field locations in Iowa and Minnesota for iron deficiency chlorosis and found to have intermediate tolerance. It was also found to have purple flowers, gray pubescence, tan pod walls, and seed with yellow seed coats and yellow hila (may contain up to 2% other hilum color). In 2001 it was tested under the experimental designation X125.

In the summer of 1998 the seed from the initial increase produced in 1997 was planted to produce Breeder Seed. This increase was rogued for flower, pubescence color, pod color, and other visually observable traits. Further increases were made in 1999 and 2000 in Ontario. This seed was further increased at Homestead, FL in the early spring of 2001.

Foundation seed of X125 was produced by Syngenta Seeds, Inc. in the summer of 2001. The increase was found to meet Syngenta Seeds, Inc. standards for Foundation Seed.

(S25-D3') BT: 4/15/2003
X125 is uniform and stable within a purity level of 99% (98% for hilum color and pod color). During the four years of testing and three years of seed increase, we have observed a small number, less than 2%, of plants with brown pod color. Any other variant plants removed from increase fields were assumed to have arisen from admixture or out-crossing. Varietal purity will be maintained using progeny rows as needed for the life of the variety.

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Exhibit B

Statement of Distinctness for the Variety X125

('S25-D3') BT: 4/15/2003

Soybean variety X125 is most like the varieties S24-12 and Harovinton. It can be differentiated from S24-12 on the basis of pod color. X125 has tan pods; S24-12 has brown pods. It can be differentiated from Harovinton on the basis of maturity and protein content. X125 is later, has smaller seed size, and has lower protein percent than Harovinton. Supporting data are given below.

Days to Maturity of X125 vs. Harovinton, Ontario Food Grade Trials

BT: 4/15/2003

Variety	2000 Summary	2001 Summary	2001 Malden	2001 Chatham	2001 Woodslee
'S25-D3'					
<X125>	119.2	113	108	114	117
Harovinton	116.3	107	102	109	111
LSD	1.3	1	2	3	3

Seed Size (g/100) of X125 vs. Harovinton, Ontario Food Grade Trials

BT: 4/15/2003

Variety	2000 Summary	2001 Summary	2001 Malden	2001 Chatham	2001 Woodslee
'S25-D3'					
<X125>	22.8	20.7	21.3	20.7	20.0
Harovinton	24.8	22.1	23.3	21.2	21.7
LSD	0.8	0.5	0.7	0.9	1.0

Protein Percentage of X125 vs. Harovinton, Ontario Food Grade Trials

BT: 4/15/2003

Variety	2000 Summary	2001 Summary	2001 Malden	2001 Chatham	2001 Woodslee
'S25-D3'					
<X125>	45.0	42.2	42.7	42.1	41.9
Harovinton	47.5	45.4	46.4	45.6	44.2
LSD	0.5	0.4	0.4	0.6	0.8

(BT: 4/25/02) *Per applicant's verification, all statistics recorded above were tested at the 95% probability level.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT C
(Soybean)

OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (*Glycine max* (L.) Merr.)

NAME OF APPLICANT(S) Syngenta Seeds, Inc.	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 510 N. 12th Ave. P.O. Box 949 Washington, Iowa 52353	PVPO NUMBER 200200139
	VARIETY NAME 'S25-D3' (BT-4/15/2003)
	TEMPORARY OR EXPERIMENTAL DESIGNATION X125

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in the first box (e.g.

9	9	9
---	---	---

 or

0	9
---	---

) when number is either 99 or less or 9 or less respectively. Data for quantitative

plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used:

Please answer all questions for your variety; lack of response may delay progress of your application.

A. MORPHOLOGY

Seed Shape:

- | | | |
|---|--|---|
| <table border="1"><tr><td>2</td></tr></table> 1 = Spherical
(L/W, L/T, and T/W ratios < 1.2) | 2 | 2 = Spherical-Flattened
(L/W ratio > 1.2; L/T ratio < 1.2) |
| 2 | | |
| 3 = Elongate
(L/T ratio > 1.2; T/W ratio < 1.2) | 4 = Elongate-Flattened
(L/T ratio > 1.2; T/W ratio > 1.2) | |

Seed Coat Color:

- | | | | | | |
|--|---|-----------|-----------|-----------|-------------------------------------|
| <table border="1"><tr><td>1</td></tr></table> 1 = Yellow | 1 | 2 = Green | 3 = Brown | 4 = Black | 5 = Other
(Please Specify) _____ |
| 1 | | | | | |

Seed Coat Luster:

- | | | |
|--|---|-----------|
| <table border="1"><tr><td>1</td></tr></table> 1 = Dull | 1 | 2 = Shiny |
| 1 | | |

Seed Size:

- | | | |
|---|---|---|
| <table border="1"><tr><td>2</td><td>2</td></tr></table> grams/100 seeds | 2 | 2 |
| 2 | 2 | |

Hilum Color:

- | | | | | | |
|--|----------------------------------|------------|-----------|----------|---------------------|
| <table border="1"><tr><td>2</td></tr></table> 1 = Buff | 2 | 2 = Yellow | 3 = Brown | 4 = Gray | 5 = Imperfect Black |
| 2 | | | | | |
| 6 = Black | 7 = Other (Please Specify) _____ | | | | |

A. MORPHOLOGY (Continued)

Cotyledon Color:

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☐ 1 = Yellow 2 = Green

Seed Protein Peroxidase Activity:

☐ 2 1 = Low 2 = High

Hypocotyl Color:

☐ 4 1 = Green 2 = Green with Bronze 3 = Light Purple 4 = Dark Purple extending to
 ('Evans' or 'Davis') Bands below Cotyledons below Cotyledons unifoliate leaves ('Hodgson',
 ('Woodworth' or 'Tracy') ('Beeson' or 'Pickett 71') 'Coker', or 'Hampton 266A')

Leaflet Shape:

☐ 3 1 = Lanceolate 2 = Oval 3 = Ovate 4 = Other (Please Specify) _____

Flower Color:

☐ 2 1 = White 2 = Purple 3 = White with a Purple Throat

Pod Color:

☐ 1 1 = Tan 2 = Brown 3 = Black

Pubescence Color:

☐ 1 1 = Gray 2 = Brown (Tawny) 3 = Light Tawny

Plant Habit:

☐ 3 1 = Determinate 2 = Semi - Determinate 3 = Indeterminate 4 = Intermediate

Maturity Group:

<input type="checkbox"/> 5	1 = 000	2 = 00	3 = 0	4 = I	5 = II
	6 = III	7 = IV	8 = V	9 = VI	10 = VII
	11 = VIII	12 = IX	13 = X	14 = XI	15 = XII

Maturity Subgroup:

☐ 5 Please enter a value from 0 - 9

B. DISEASE REACTIONS

0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

Bacterial

☐ 0 Bacterial Pustule (*Xanthomonas campestris* pv. *glycines* (Nakano) Dye)☐ 0 Bacterial Blight (*Pseudomonas syringae* pv. *glycinea* (Coerper) Young, Dye, & Wilkie)☐ 0 Wildfire Blight (*Pseudomonas syringae* pv. *tabaci* (Wolf & Foster) Young, Dye, & Wilkie)

B. DISEASE REACTIONS (Continued)

0 = Not Tested

1 = Susceptible

2 = Resistant 3 = Tolerant

Fungal

200200139

☐ 1 Brown Spot (*Septoria glycines* Hemmi)Frogeye Leaf Spot (*Cercospora sojina* Hara)☐ 0

race 1

☐ 0

race 2

☐ 0

race 3

☐ 0

race 4

☐ 0

race 5

☐ 0

race 6

☐ 0

Other (Please Specify) _____

☐ 0Target Spot (*Corynespora cassiicola* (Berk. & Curt.) Wei)☐ 0Downey Mildew (*Peronospora trifoliorum* var. *manchurica* (Naum.) Syd. ex Gäum)☐ 0Powdery Mildew (*Microsphaera diffusa* Cke. & Pk.)☐ 0Brown Stem Rot (*Phialophora gregata* (Allington & Chamberlain) W. Gams.)☐ 0Stem Canker (*Diaporthe phaseolorum* (Cke. & Ell.) Sacc. var. *caulivora* Athow & Caldwell)☐ 1Pod and Stem Blight (*Diaporthe phaseolorum* (Cke. & Ell.) Sacc. var. *sojae* (Lehman) Wehm.)☐ 1Purple Seed Stain (*Cercospora kikuchii* (T. Matsu. & Tomoyasu) Gardener)☐ 1Rhizoctonia Root Rot (*Rhizoctonia solani* Kühn)Phytophthora Root Rot (*Phytophthora megasperma* Drechs. f. sp. *glycinea* (Kuan & Erwin))☐ 2

race 1

☐

race 8

☐

race 15

☐

race 22

☐ 0

race 2

☐

race 9

☐

race 16

☐

race 23

☐ 2

race 3

☐

race 10

☐

race 17

☐

race 24

☐ 1

race 4

☐

race 11

☐

race 18

☐

race 25

☐ 0

race 5

☐

race 12

☐

race 19

☐

race 26

☐ 0

race 6

☐

race 13

☐

race 20

☐

Other (Please Specify) _____

☐ 2

race 7

☐

race 14

☐

race 21

☐

Rps 1-C

☐ 0

Bud Blight (Tobacco Ringspot Virus)

☐ 0

Yellow Mosaic (Bean Yellow Mosaic Virus)

B. DISEASE REACTIONS (Continued) 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

☐ Cowpea Mosaic (Cowpea Chlorotic Virus)☐ Pod Mottle (Bean Pod Mottle Virus)☐ Seed Mottle (Soybean Mosaic Virus)

200200139

Nematode

Soybean Cyst Nematode (*Heterodera glycines* Ichinohe)

<input type="checkbox"/>	race 1	<input type="checkbox"/>	race 4	<input type="checkbox"/>	race 9
<input type="checkbox"/>	race 2	<input type="checkbox"/>	race 5	<input checked="" type="checkbox"/>	race 14
<input checked="" type="checkbox"/>	race 3	<input type="checkbox"/>	race 6	<input type="checkbox"/> Other (Please Specify) _____	

☐ Lance Nematode (*Hoplolaimus columbus* Sher)☐ Southern Root Knot Nematode (*Meloidogyne incognita* (Kofoid & White) Chitwood)☐ Northern Root Knot Nematode (*Meloidogyne hapla* Chitwood)☐ Peanut Root Knot Nematode (*Meloidogyne arenaria* (Neal) Chitwood)☐ Reniform Nematode (*Rotylenchus reniformis* Linwood & Olivera)☐ Javanese Nematode (*Meloidogyne javanica* (Treub) Chitwood)☐ Other Nematode (Please Specify) _____

C. PHYSIOLOGICAL RESPONSES 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

☐ Iron Chlorosis on Calcareous Soil Intermediate☒ Phosphorus ☐ Other (Please Specify) _____☐ Boron☐ Aluminum☐ Salt☐ Drought

200200139

D. INSECT REACTIONS

0 = Not Tested

1 = Susceptible

2 = Resistant 3 = Tolerant

☐Mexican Bean Beetle (*Epilachna varivestis* Mulsant)☐Potato Leaf Hopper (*Empoasca fabae* (Harris))☐

Other (Please Specify) _____

E. HERBICIDE REACTIONS

0 = Not Tested

1 = Susceptible

2 = Resistant

☐

Metribuzin

☐

Bentazone

☐

Sulfonyleurea

☐

Glyphosate

☐

Glufosinate

☐

Pendimethalin

☐Other (Please Specify) Sulfentrazone**F. TRANSGENIC COMPOSITION**

Has the development of the subject variety included the insertion of genetic material from an organism other than a soybean, or, the removal of genetic material from the application variety?

If yes, please complete the following information requests*. Use additional pages if necessary.

☐

YES

☒

NO

1. Please state the vector's name:

2. Please state the vector components:

3. Please describe the genetic material successfully transferred into the subject variety:

4. Please describe the insertion protocol:

* A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS

Please describe any biochemical information here, which you believe will be helpful in further describing the subject variety (e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

H. COMMENTS

200200139

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FORM APPROVED - OMB No. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICEEXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)

~~John C. Thorne~~

Syngenta Seeds, Inc.

24 April 2002

2. TEMPORARY DESIGNATION
OR EXPERIMENTAL NUMBER
X125

3. VARIETY NAME

'S25-D3'

(07/4/15/2003)

4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)

Syngenta Seeds, Inc.
510 North 12th Avenue
Washington, IA 52353

5. TELEPHONE (Include area code)

319-653-2181

6. FAX (Include area code)

319-653-4609

7. PVPO NUMBER

200200139

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

☒ YES☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

☒ YES☐ NO

10. Is the applicant the original owner?

☒ YES☐ NO

If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES☐ NO If no, give name of country

11. Additional explanation on ownership (If needed, use the reverse for extra space):

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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ST-470-E (07-01) Designed by the Plant Variety Protection Office using Word 2000. Replaces ST-470-E (04-99), which is obsolete.